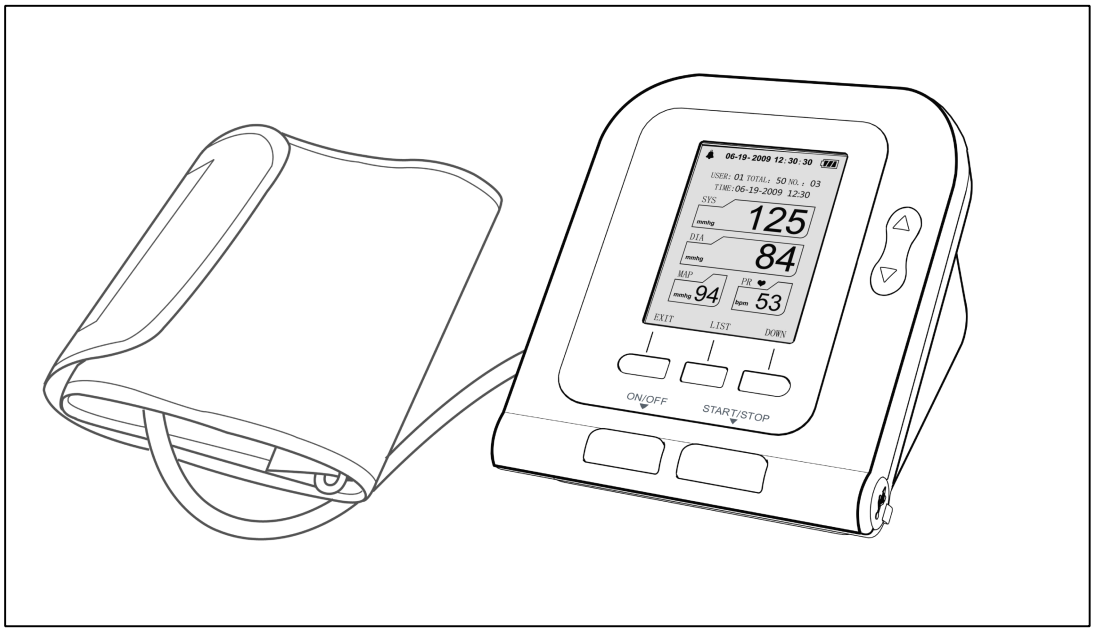
MEDIPREVENTIECENTRUM
Webshop voor Fysiotherapie, fitness en sport

User Manual

Electronic Sphygmomanometer



■ To assure the correct use of the product safety measures, please carefully read user manual before using.

■ After reading, please validly keeping to refer and consult at any moment.

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Chapter1 Safety Precautions:

- Before use, carefully read "Safety Precautions" for a correct use.
- To prevent users suffered hurt or damnification due to improper use, see "Safety Precautions", and use this product properly.

For safety reasons, be sure to comply with safety precautions.

⚠ Note ⚠

If not to use correctly, it exists that a potentially hazardous situation which may result in injury to the user or patient or damage to the equipment or other property.

⚠ Note ⚠

Self-diagnosis and treatment using measured results may be dangerous.
Follow the instructions of your physician.

Contact your physician for specific information about your blood pressure.
Please hand measurement results to the doctor who know your health to accept diagnosis.
For severe blood circulation disorder or arrhythmia patients, please use the device under the guidance of a doctor.
Otherwise it may lead to acute hemorrhage, or measurement error as a result of squeezed arm.

This device is intended for using in measuring blood pressure and pulse rate.
Do not use for any other purpose.
Otherwise it may cause accident or holdback.

Please use special cuff.
Otherwise it is possible that measurement result is incorrect.

Do not disassemble or attempt to repair the unit or components without permission.
Otherwise it can not measure correctly.

Operation for AC Adapter (Separate Sale)

⚠ Note ⚠

Please use sold separately dedicated AC adapter.
Otherwise it may cause trouble.
Sold separately dedicated AC adapter be sure to use a separate socket.
Otherwise it may cause electric shock or injury.
When there is breakage of sold separately dedicated AC adapter plug or wire ,
please immediately pulled the plug from the socket.
Otherwise it may cause electric shock or injury.
Do not plug or unplug the adapter power cord with wet hands.
Otherwise it may cause electric shock or injury.

Operation for battery

⚠ Note ⚠

Please use 4 "AA" size manganese or alkaline batteries, do not use batteries of other types. Otherwise it may cause fire.

New and old batteries, different kinds batteries can not be confusion.

Otherwise it may cause battery leakage, heat, rupture, and damage to Electronic Sphygmomanometer.

+ and - polarities of the batteries must match the polarities of the battery compartment as indicated. When the batteries power exhausts, replace with four new batteries at the same time.

Please take out the batteries when you do not use the device for a long time.

Otherwise it may cause battery leakage, heat, rupture, and damage to Electronic Sphygmomanometer.

If battery fluid should get in your eyes, immediately rinse with plenty of clean water.

Contact a physician immediately.

Otherwise it will cause blindness or other hazards.

If electrolyte of the batteries immodestly glues on the skin or the clothes, immediately rinse with plenty of clean water.

Otherwise it may hurt the skin.

⚠ Advice ⚠

Do not subject the device to strong shocks, such as dropping the unit on the floor.

Do not inflate before the cuff wrapps around the arm

Do not inflect the cuff and the air tube forcibly

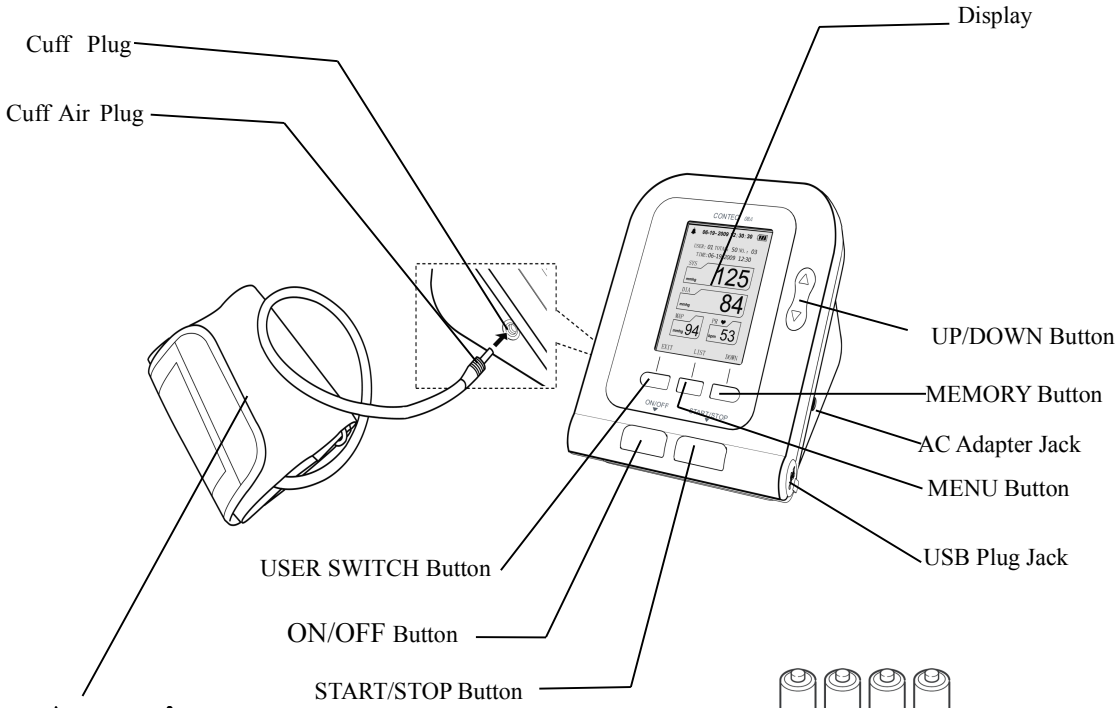
This device is intended for using in measuring blood pressure and pulse rate in the adult, pediatric and neonatal population.

⚠ Warning ⚠

Please use the device on the adult object who can read the user manual and the error message shown on the screen. Read the user manual before use the device in order to take actions according to the manual when something wrong with the device. For pediatric and neonatal population, measurement should be only performed by qualified personnel. And please make sure to select the right user mode and cuff before use .

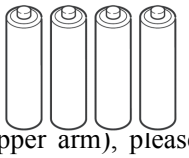
Chapter2 Main Unit

The production is in the package. Open the package and confirm whether the production is whole.



Accessories:

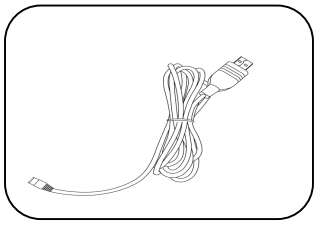
Adult Cuff



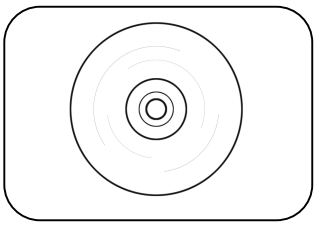
Dry Battery

(Specification: limb circumference 22-32cm (middle part of upper arm), please choose suited cuff when measuring pediatric or other).

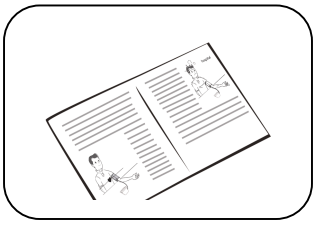
USB Data Line



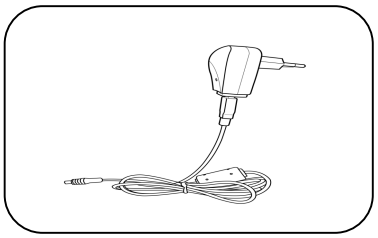
Software CD



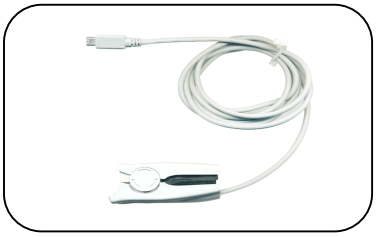
User Manual



Separate Sale:



AC Adapter
InputAC 100-240V 50-60Hz AC 500mA
Output DC 6.0V 1.0A



SpO_2 Probe Y10UCH150
SpO_2 Measurement Range 35%~100 %
Measurement Accuracy 70%~100% ±2%
Pulse Measurement Range 30~250bpm

Chapter3 Button Functions

All the operations to the Electronic Sphygmomanometer are through the buttons. The names of the buttons are above them. They are:

【ON/OFF】 Hold the button to start or close the device.

【START/STOP】 Press to inflate the cuff and start a blood pressure measurement. When measuring, press to cancel the measurement and deflate the cuff.

The three buttons correspond with the hint in the LCD screen downside, pressing any button will carry on corresponding function, eg:【MENU】【ENTER】【LIST】 etc.

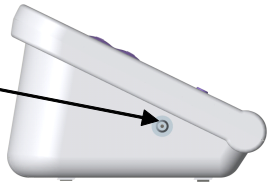
Up and down buttons respectively carry on the functions of moving the cursor up and down, changing the parameters and switching the status.

Chapter4 External Interfaces

⚠ **Note** ⚠

Please hold the air plug to remove the NIBP cuff.

① Cuff Socket



left side

The right side of the instrument is USB socket and AC adapter socket.

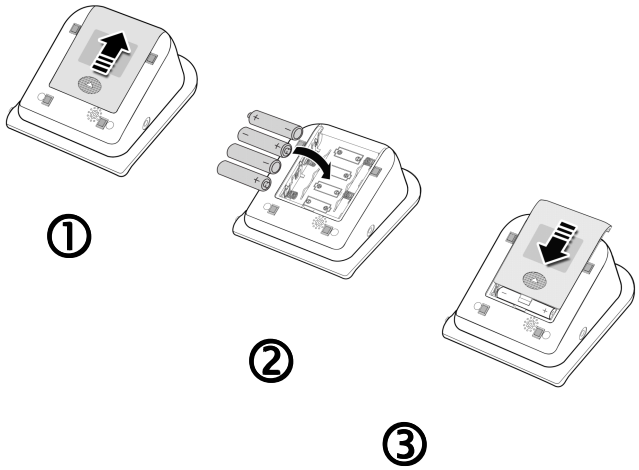
①USB socket

②AC adapter socket

right side

Chapter5　Dry Battery/AC Adapter Installation

The production can use dry battery or AC adapter as power source.



5.1 Dry Battery Installation

① Press the▲indicator on the battery cover and slide the cover off in the direction of the arrow.

② Install 4 "AA" size dry batteries so the +(positive) and —(negative) polarities match the polarities of the battery compartment as indicated.

③ Replace the battery cover.

Icon "▯": the batteries power will exhaust.

Replace with four new batteries (the same sort) at the same time.
Turn the unit off before replacing the batteries.

⚠ Note ⚠

Dispose of the batteries according to applicable local regulations about environmental.

5.2 Using The AC Adapter

① Connect device and the AC Adapter. Insert the AC Adapter Plug into the AC Adapter Jack on the right side of the device.

② Plug the AC Adapter into a AC outlet.

⚠ Note ⚠

①Hold and pull the Housing to remove the AC Adapter from the electrical outlet. Do not remove by pulling on the cord.
② Remove the AC Adapter plug from the unit.
Please be sure to use dedicated AC adapter.

⚠ Note ⚠

You'd better take off batteries when use the AC adapter as power source. If there is any damage to the AC adapter, you should use batteries to run the device.

When adapter and batteries are both used at the same time, the battery power will not be consumed. Switch adapter and battery as power supply when the device is off, otherwise, the device may shutdown due to power failure.

Chapter6 Setting The Date And Time

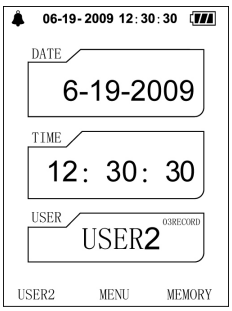
- It is necessary to set date and time after turning on the device.
- The Electronic Sphygmomanometer automatically stores measurement results with date and time.
- If dry battery power exhausts or removed, then, after the device turned on, the date resumes from the last setting value and the time from 00:00:00, set the date and time again.

The Electronic Sphygmomanometer stores the measure results of three users automatically, and up to 100 items for every user. The results can be uploaded to PC via USB and processed with the PC software. If the date and time are set correctly, the date and time when measuring will be correct in the memory, otherwise it may not be correct.

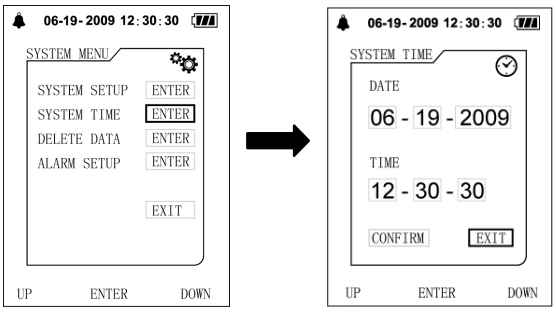
⚠ Note ⚠

Correctly use data upload function:

1. Turn on the device to enter the main interface shown as the follow:



2.Press 【MENU】 button to enter 【SYSTEM MENU】 and select【SYSTEM TIME】 item in system menu. The current time will be displayed:



3.Press 【UP】 or 【DOWN】 buttons to set date and time.

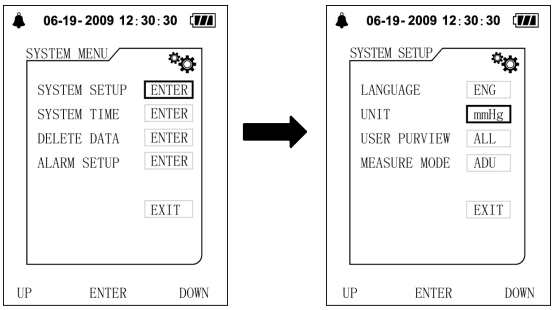
4.After setting, select 【CONFIRM】 item and press 【ENTER】 button to confirm the setting value. If you do not want to change the time, select 【EXIT】 item and press 【ENTER】 button to return the previous menu.

⚠ Note ⚠

Please choose the computer which should be ensured compliance with the requirements of IEC60950, or else it may damage the device.

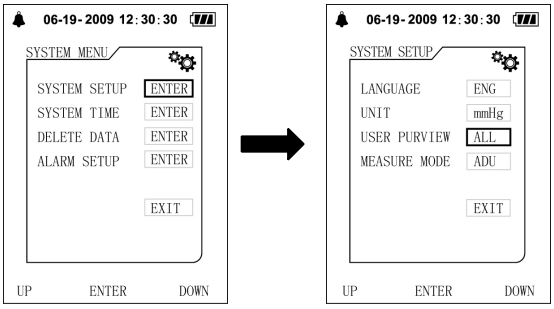
Chapter7 Unit

There are two units: "mmHg" and "kPa".
The default is: "mmHg".
To switch "mmHg" and "kPa" units, enter the 【SYSTEM SETUP】 submenu in 【SYSTEM MENU】, and complete switching in 【UNIT】 item.



Chapter8 User Switch

The Electronic Sphygmomanometer stores the measure results of three users automatically, and up to 100 items for every user.
Press 【USER】 button in main interface to switch users. Or press 【USER PURVIEW】 item in 【SYSTEM SETUP】 menu to switch users.



⚠ **Note** ⚠

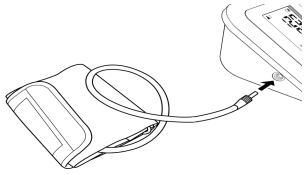
When the 【USER PURVIEW】 is set to be 【ALL】, current user can be switched under main interface; when set to a certain user, it will not be able to switch.

Chapter9 Applying the Arm Cuff

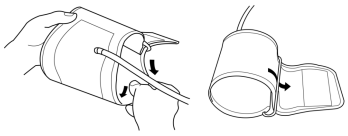
The measurement can be carried out by applying the cuff on left or right arm.
Remove tight-fitting clothing from your upper arms.
Carry out the operation in a room with comfortable temperature.

When measuring, take the thick clothes off instead of rolling up the sleeves.
In order to measure accurately, pay attention to applying the cuff properly (left arm).

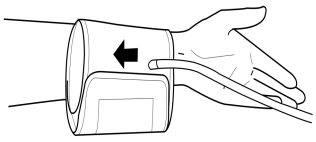
① Make sure the air plug is securely inserted in the main unit.



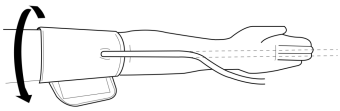
② Stretch cuff into a barrel for the arm can conformable enter into the barrel.



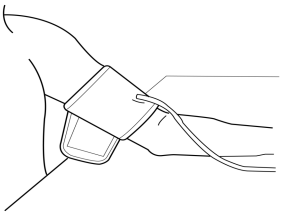
③ Arm penetrate throught the cuff, the air tube of the cuff will pass the top of your palm.



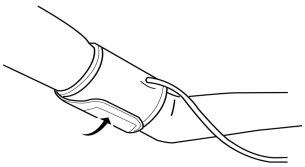
④ Apply the cuff to your upper arm. The color marker is on the inside center of your arm and make the air tube aligned with your middle forger.



⑤ The bottom of the cuff should be approximately 2cm~3cm above your elbow.

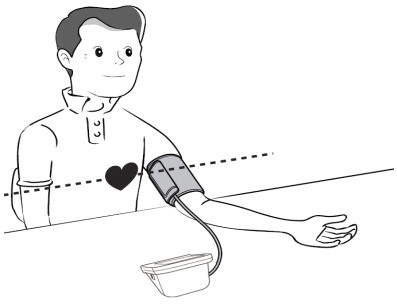


⑥ Be fixed with cloths, and wrapped tight cuff, the arm and the cuff should not have gaps.



Chapter10 BP Measurement

10.1 Accurate Measurement Way



Measurement in quiet and relaxing state.

1.Place your arm on a table.

2.The cuff is level with your heart.

3.The palm of the hand is up, and the body relax.

Try to measure your blood pressure at the same time each day with the same arm and the same pose for consistency.

The high and low location of cuff will cause changes in measurement results.

Do not touch Electronic Sphygmomanometer, cuff and windpipe during measurement.

Measurements should be taken in a quiet place and the body relax.

Remain still 4~5 minutes before measurement.

Relax the body, do not let the muscle activity.

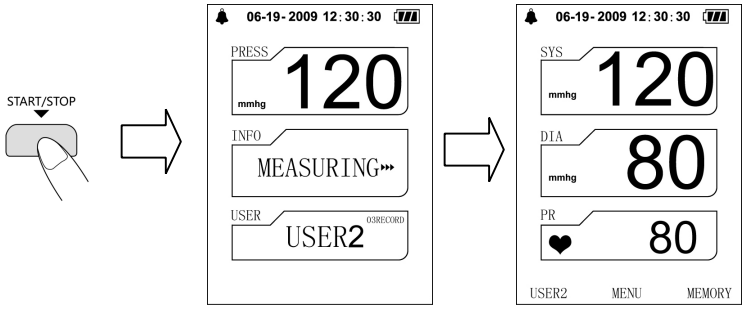
Do not talk and movement during the measurement.

Wait 4~5 minutes between measurements.

Do not use a cellular phone near the device.

10.2 BP Measurement

①Press 【START/STOP】 button to take a measurement.



Start measurement measurement result

During measurement, please keep correct pose and quiet state, do not move.

Stop Measurement

During measurement, if you wish to stop measuring, press 【START/STOP】 button to stop and deflate.

②Confirm Measurement Value

Measurement value can be automatically stored.([using memory function] refer to 10 page)

*Self-diagnosis and treatment using measured results may be dangerous. Follow the instructions of your physician.

⚠ **Note** ⚠

■ **Wait 4-5 minutes between measurements.**

When repeated measurements, because, the arm appears congestion, it may not get correct blood pressure measurement. After the blood flow, take a measurement once again.

■ When some factors affect the measurement results in measurement process, error messages hints will appear on the screen, you can obviate the malfunction and restart a measurement.

③In no physiological alarm state, press any button to carry on the corresponding button function;

in audio alarm state, press any button (except 【ON/OFF】 button) to clear up the audio alarm.
④Take off the cuff, hold 【ON/OFF】 button to turn the device off.

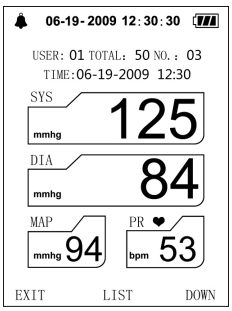
*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

Chapter11 Memory Function

The devicer is designed to store and display the blood pressure, pulse rate values and the date and time when measured, which are up to 100 items. If there have been 100 items stored, when the 101 measurement have been taken, the earliest results are deleted.

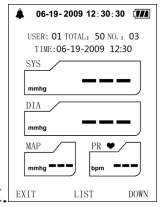
11.1 Review The Memory Value

1.In the main interface (interface when boot-strap), press 【MEMORY】 button to review the most recent measurement values in large-print with the serial number from 1 to 100.

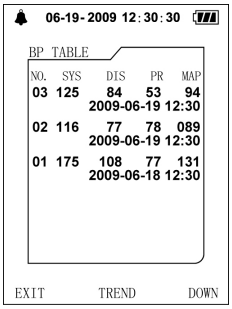


2.Press 【UP】/【DOWN】 button to circularly switch the former measurement values.

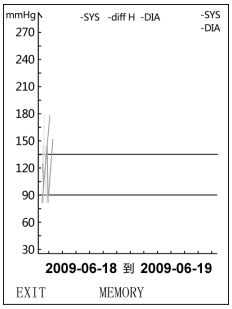
*The right figure shows that there is no Measurement result.



3.Press 【LIST】 button to switch to data table interface.



4.Press 【TREND】 button to display trend interface.



5.Finish displaying the measurement values

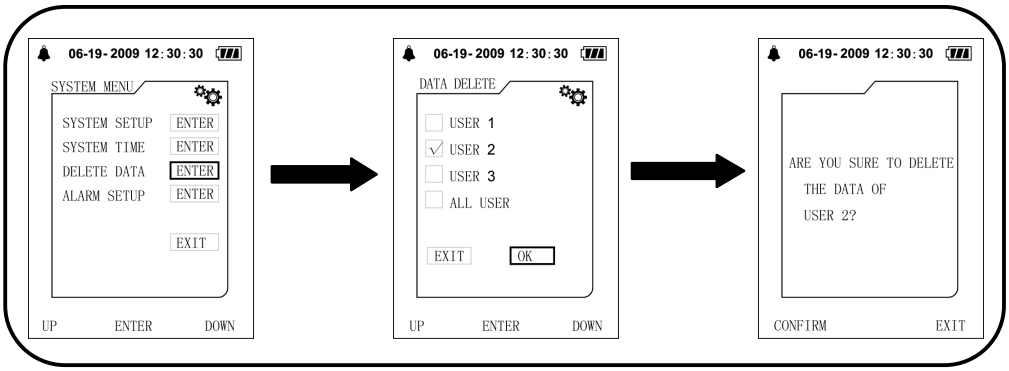
Press 【EXIT】 to return the main interface or hold 【ON/OFF】 button to turn the power off.

*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

11.2 Delete Memory Values

Users can delete all values stored in the memory of each user separately instead of deleting a special item.

1.Press 【MENU】 button to enter 【SYSTEM MENU】, select 【DELETE DATA】 item and enter its interface, in which select the user whose data will be deleted. All measurement results of selected user will be deleted after confirm



2.Finish Operation

Select 【CONFIRM】 or 【EXIT】 to return the previous menu, or hold 【ON/OFF】 button to turn the power off.

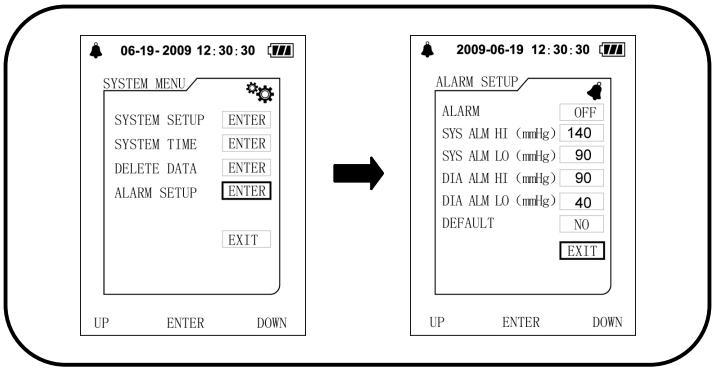
*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

Chapter12 Alarm Function

Alarms are classified into two categories: technical alarm and physiological alarm.

Physiological Alarm

User can press【MENU】button to enter system menu, select【ALARM SETUP】item to enter its interface, and then set alarm on-off and the high and low alarm limits, when blood pressure is higher than the high limit or lower than the low limit, the physiological alarm will occur.



Press any button to cancel the alarm in physiological alarm state and this method brings no affection to the next alarm. To close alarm in 【ALARM SETUP】 will disable the alarm function until switch alarm on.

Technical Alarm

When power is about to exhaust and alarm is on , then the alarm will occur. This alarm can not be cancelled unless being closed or the power replaced.

Chapter13 SpO_2 Measurement Function(Separate Sale)

Please pay attention to:

⚠ Warning ⚠

◎**Pulse oximeter can overestimate the SpO_2 value in the presence of Hb-CO, Met-Hb or dye dilution chemicals.**

◎ES (Electrosurgery) equipment wire and SpO_2 cable must not be tangled up.

◎Do not put the sensor on extremities with arterial catheter or venous syringe.

◎Do not perform SpO_2 measuring and NIBP measuring on the same arm at one time, because obstruction of blood flow during NIBP measuring may adversely affect the reading of SpO_2 value.

⚠ Note ⚠

◎Make sure the nail covers the light window.

◎the wire should be on the backside of the hand.

◎SpO_2 value is always displayed in the fixed place.

⚠ Warning ⚠

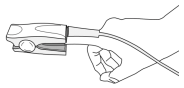
◎Check if the sensor cable is in normal condition before monitoring. After unplugging the SpO_2 probe cable from the socket, the interface will return.

◎Do not use the SpO_2 probe once the package or the sensor is found damaged. Instead, you shall return it to the vendor.

◎Prolonged and continuous monitoring may increase jeopardy of unexpected change of dermal condition such as abnormal sensitivity, erubescence, vesicle, repressive putrescence, Particularly in newborns or in a Perfusion disorders and changes or immature skin form of the patient. According to skin quality change, correct optical path alignment and attachment methods to regularly check the place of SpO_2 probe, and change the attachment position when the quality of skin decline. More frequent examinations may be required for different patients.

Chapter14 Monitoring Procedure

1.Attach the sensor to the appropriate site of the patient finger as following figure.

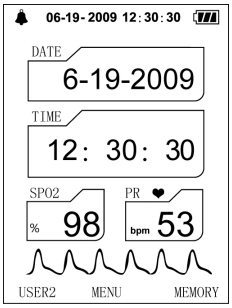


place SpO_2

2.Plug the connector of the SpO_2 probe cable into the USB socket in the lower right of the device. The main interface will switch to SpO_2 interface. The update period of data is less than 5 seconds, which is changeable according to different individual pulse rate. This operation brings no affection to other functions.

⚠ Warning ⚠

Uncomfortable or painful feeling may appear if using the device ceaselessly, especially, for the microcirculation barrier patients. It is recommended that the sensor should not be applied to the same finger for over 2 hours.



Measurement Limitations

During operation, the accuracy of oximeter readings can be affected by:

- High-frequency electrical noise, including noise created by the host system, or noise from external sources, such as electrosurgical apparatus connected to the system.
- Intravascular dye injections.
- Excessive patient movement.

- External light radiation.
- Improper sensor installation or incorrect contact position of the patient.
- SpO_2 probe temperature (optimal temperature between 28°C and 40°C).
- Placement of the SpO_2 probe on an extremity that has a blood pressure cuff, arterial catheter, or intravascular line.
- Significant concentrations of dysfunctional hemoglobin, such as carboxyhemoglobin and methemoglobin.
- SpO_2 too low.
- Bad circular injection of the part being measured.
- It is required to use SpO_2 probe which is provided by our company, contact with our sale department when changes SpO_2 probe.

Chapter15 Maintenance and Cleaning

⚠ Warning ⚠

Take cuff and the power source off before cleaning the unit or the SpO_2 probe.

⚠ Caution ⚠

- Do not subject the sensor to autoclaving.
- Do not immerse the SpO_2 probe into any liquid.
- Do not use any SpO_2 probe or cable that may be damaged or deteriorated.

Cleaning:

- Use a cotton ball or a soft mull moistened with hospital-grade ethanol to wipe the surface of the SpO_2 probe, and then dry it with a cloth. This cleaning method can also be applied to the luminotron and receiving unit.
- The cable can be cleaned with 3% hydrogen dioxide, 70% isopropanol, or other active reagent. However, connector of the SpO_2 probe shall not be subjected to such solution.

Chapter16 Installation Of The Software

16.1 Demand Of Editor

Pentium IV 1.8G or more
Operation System:Windows XP
EMS memory: 256M or more
Hard Disk: 40G or more
Display: 17 inch or more
CD-ROM
USB: 2 or more
Resolution of printer: 600 DPI

16.2 Installation Of Software

1.Place the CD-ROM in the CD-ROM compartment located on your computer.
2.If Auto Play for CDs is enabled, place CD in reader and follow instructions when they appear in the screen; otherwise follow install instructions below:
1.Open Windows Explorer.
2.Click on the root CD-ROM directory.
3.Follow the instructions in the screen.

Refer to "Software Help"for details about the operation method of the PC software.

Chapter17 Keys And Symbols

Signal	Description
	Warning – See User Manual
SYS	Systolic pressure
MAP	MAP pressure
DIA	Diastolic pressure
PR	Pulse rate (bpm)
ADU	Adult
PED	Pediatric
NEO	Neonatal
INFO	Information
	Open the alarm sound indication
	Close the alarm sound indication
	Low-power
	Full-power
	1.no NIBP data to review 2.no finger inserted to SpO_2 probe 3.An indicator of signal inadequacy
	Class Ⅱ equipment
	WEEE (2002/96/EC)
	BF Applied Part
SN	Serial number
	USB or connect SpO_2 probe

Chapter18 Error Message

Error message will be displayed in the screen if there is something wrong when measuring. The causes and solutions are shown as follows:

Error Message	Causes	Solutions

Self-test failure System failure	Function abnormal	Please contact us
Loose cuff	Cuff is not connected correctly.	Correctly connect cuff (refer to 8 page)
Air leakage	Cuff plug fall off	Make sure the cuff plug is securely inserted in the windpipe (refer to 8 page)
Air pressure error	Air pressure error	Refer to the troubleshooting
Weak signal	The pulse signal is too weak or the cuff is loose.	Correctly connect cuff (refer to 8 page)
overpressure	Cuff is blocked or squeezed	Correctly connect cuff (refer to 8 page)
Excessive movement Over range Saturated signal	The signal extent is too big owing to the arm or body moving or other reasons when measuring	Keep arm, body still, measure again
Time out	It takes too much time	

Chapter19 TROUBLESHOOTING

Abnormal Phenomenons	Causes	Solutions
BP measurement values too high or too low.	Cuff is not connected correctly.	Correctly connect cuff (refer to 8 page)
	Talk or move arms when measuring	Keep quiet and restart a measurement
	The turnup clothing presses the arm	Take off the clothing which presses the arm, and restart a measurement
No pressure	Cuff leakage	Buy a new cuff
	The cuff windpipe is not correctly connected with cuff	Correctly connect
	Cuff is not inflated	Stop using the device and contact us
Cuff deflates in short time	Loose cuff	Correctly apply cuff
It can not carry on measurement when press the measurement button		Switch on the power once again and restart a measurement
Power off suddenly when inflating	No use for a long time, the power of batteries can be exhausted owing to the changed temperature	Replace all four batteries with new ones.
Hold the on/off button but can not start the device	Power of batteries can be exhausted	Replace all four batteries with new ones.
	The battery polarities is reversed	Check the battery installation for proper placement of the battery polarities.
Cuff inflation start before press the measurement button or never stop inflating when measuring		Pull out the cuff to deflate. Stop using the device and contact us.
Cuff never deflation		Pull out the cuff to deflate. Stop using the device and contact us.
Air pressure error	No deflation or deflation error or inflation without stop	Pull out the cuff to deflate. Stop using the device and contact us.
	Others	Keep arm, body still, measure again.
No press value displayed or the value unchanged or change erratically when cuff inflated		Pull out the cuff to deflate. Stop using the device and contact us.
Other phenomenon		Switch on the power once again and restart an operation. Replace the batteries. If no, please contact us.

Chapter20 Clean And Maintenance

*Please follow the instructions in the user manual. If you do not comply, our company will not assume responsibilities of the quality.

- Frequently clean the Electronic Sphygmomanometer.
- If there is something dirty on the device, clean it with a soft dry cloth.
- If the unit is particularly dirty, you can clean it with a soft cloth dampened with water or neutral detergent after the cloth can be full twisted.

⚠ Warning ⚠

Do not submerge the device in water.

⚠ Advice ⚠

- Do not use any naphtha, thinner or gas to clean.

- Do not attempt to clean or wash the cuff.

Keeping

⚠ Advice ⚠

Do not place the machine in the following areas:

- Easy to splash water areas.

- Direct sunlight, extreme hot, humidity, dust, causticity gas areas.
- Lean or the area which can cause vibration, impact.
- Chemicals or corrosive gas storage areas.
- Remove the batteries if the unit will not be used for long time.

⚠ Warning ⚠

It is recommended that you check if there is any damage on the Sphygmomanometer or the accessories regularly, if you find any damage, stop using it, and contact our Customer Service immediately.

In addition, the overall check of the Sphygmomanometer, including the NIBP calibration and safety check such as the leakage current, should be only performed by qualified

personnel once every 12 months.

⚠ Warning ⚠

The disposal of scrap instrument and its accessories and packing (including batteries, plastic bags, foams and paper boxes) should follow the local laws and regulations.

EMC declaration:

- When this device is installed or putted into service, EMC should be paid more attention, as the portable and mobile RF communications equipment with higher EM interference can affect this device.
- The internal components and cables should not be changed,as this may decreased IMMUNITY of the device.
- The Electronic Sphygmomanometer should not be used adjacent to or stacked with other equipment.

Classification:

EMC: Group I Class B.
According to the MDD 93/42, the classification of this medical device: Ⅱa.
The type of protection against electroshock: Class Ⅱ equipment.

The degree of protection against electroshock: type BF applied part.

The degree of protection against ingress of water: IPX0.
According to the mode of operation: Continuous.
According to the degree of safely of application in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

Chapter21 NIBP Specification

Name	Electronic Sphygmomanometer		
Display	2.8" color LCD Display		
NIBP Specifications			
Measurement Method	Oscillometric method		
Working modes	Automatic		
Measurement Range	Pressure	adult	0~290mmHg（0~38.6kPa）
		pediatric	0~235mmHg（0~31.3kPa）
		neonatal	0~140mmHg（0~18.6kPa）
	Pulse: 40~240/min		
Inflation	adult	160mmHg	
	pediatric	120mmHg	
	neonatal	70mmHg	
Alarm Range	adult mode	SYS ALM: 40~270 mmHg DIA ALM: 10~215 mmHg	
	pediatric mode	SYS ALM: 40~200 mmHg DIA ALM: 10~150 mmHg	
	neonatal mode	SYS ALM: 40~135 mmHg DIA ALM: 10~100 mmHg	
Overpressure protect	adult mode	295±5mmHg	
	pediatric mode	240±5mmHg	
	neonatal mode	145±5mmHg	
Resolution			
Pressure	1mmHg		
Measurement Accuracy			
Cuff Pressure Accuracy	±3mmHg		
Error	The BP Value of the device is equivalence with the measurement value of Stethoscopy. The error meets all the conditions in the ANSI/AAMI SP-10:2002+A1:2003 +A2:2006.		
Operating Temperature/ Humidity	+5ºC~40 ºC . 15%RH~80%RH		
Transport and Storage Temperature/Humidity	-20ºC~+55ºC . ≤95%RH		
Atmospheric pressure	80kPa~105kPa		
Battery	4 "AA" alkaline batteries, AC Adapter separately sold		
Main Unit Dimensions	130(L)*110(W)*80mm(H)		
Main Unit Weight	300gram		

Accessories	Standard Configure: Adult Cuff: limb circumference 22-32cm (middle of upper arm) Software CD, User Manual, USB data line, four "AA" alkaline batteries Separate Sale: Pediatric Cuff: limb circumference 10-19cm (middle of upper arm) Neonatal Cuff: limb circumference 6-11cm (middle of upper arm) AC Adapter Input: AC 100-240V 50-60Hz AC 500mA Output: DC 6.0V 1.0A

Chapter22 SpO_2 Specification

Name	SpO_2 Probe (Accessory Separate Sale)	
Model	Y10UCH150	
Measurement Range	SpO_2 Measuring Range: 0%~100%; Pulse Rate Measuring Range: 30bpm~250bpm;	
Resolution		
SpO_2	1%	
PR	1bpm	
Measurement Accuracy		
SpO_2,	70%~100% ±2% 0%~69% undefined	
PR	±2bpm or ±2% (select larger)	
Measurement Performance In Weak Filling Condition		
pulse-filling ratio : 0.4%	SpO_2 error	±4%,
	pulse rate error	±2bpm or ±2% (select larger)
Optical Sensor		
Red light	wavelength is 660nm, 6.65mW	
Infrared	wavelength is 880nm, 6.75mW	